



U.S. Application No.: 10/747,931  
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Replacement Abstract of the Disclosure

## ABSTRACT OF THE DISCLOSURE

Digital signal processing for television signals includes digital feedback loops. Analog information signals are oversampled to provide digital signals. The digital signals are introduced to a digital carrier recovery loop and a digital symbol recovery loop. The gain of the digital signals is also regulated in a feedback loop. The digital signals are processed to recover the data in the data signals. The use of digital feedback loops allows information recovered from the digital signals to be precise. Carrier signals can be directly demodulated to produce baseband inphase and quadrature signals, or first downconverted to produce intermediate frequency signals.